
CITY OF SAN ANTONIO PURCHASING & GENERAL SERVICES DEPARTMENT

Issued By:TC/rm
BID NO.: 05-018

Date Issued: November 23, 2004
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**FORMAL INVITATION FOR BIDS
TWO DOOR TILT HOOD TRACTOR**

Sealed bids in triplicate, subject to the Terms and Conditions of this Invitation for Bids and other contract provisions, will be received at the City Clerk, City Hall until 2:00 P.M. Central Time **DECEMBER 10, 2004**.

The City of San Antonio Purchasing Department is willing to assist any bidder(s) in the interpretation of bid provisions or explanation of how bid forms are to be completed. Assistance may be received by visiting the Purchasing Office in the City Hall Annex, 131 W. Nueva, or by calling (210) 207-7260.

It is the policy of the City of San Antonio to involve qualified Small, Minority, Woman-owned, and local business in construction, procurement, professional services, and leases and concessions contracting. The City of San Antonio has established the following minority business enterprise (MBE), woman business enterprise (WBE), African-American business enterprise (AABE), and small business enterprise (SBE) utilization goals:

MBE Goal: 15% WBE Goal: 10%
AABE Goal: 3% SBE Goal: 50%

This invitation includes the following:

Invitation for Bids

Specifications and General Requirements

Terms and Conditions of Invitation for Bids

Price Schedule

The undersigned, by his/her signature, represents that he/she is authorized to bind the Bidder to fully comply with the Specifications and General Requirements for the amount(s) shown on the accompanying bid sheet(s). By signing below, Bidder has read the entire document and agreed to the terms therein.

Signer's Name: _____ Firm Name: _____
(Please Print or Type)

Address: _____

Signature of Person Authorized to Sign Bid _____ City, State, Zip Code: _____

Email Address: _____ Telephone No.: _____

Fax No.: _____

Please complete the following:

Prompt Payment Discount: _____% _____days. (If no discount is offered, Net 30 will apply.)

Please check the following blanks which apply to your company:

Ownership of firm (51% or more):

___ Non-minority ___ Hispanic ___ African-American ___ Other Minority (specify) _____

___ Female Owned ___ Handicapped Owned ___ Small Business (less than \$1 million annual receipts or 100 employees)

Indicate Status: ___ Partnership ___ Corporation ___ Sole Proprietorship ___ Other (specify) _____

Tax Identification Number: _____ Social Security Number: _____ - _____ - _____

FOR CITY USE ONLY

AWARD

Items Accepted:	Ordinance No:	Date:	Amount:
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Approved: _____

CITY OF SAN ANTONIO

TERMS AND CONDITIONS OF INVITATION FOR BIDS**READ CAREFULLY****1. GENERAL CONDITIONS**

Bidders are required to submit their bids upon the following expressed conditions:

- (a) Bidders shall thoroughly examine the drawings, specifications, schedule(s), instructions and all other contract documents.
- (b) Bidders shall make all investigations necessary to thoroughly inform themselves regarding plant and facilities for delivery of material and equipment as required by the bid conditions. No plea of ignorance by the bidder of conditions that exist or that may hereafter exist as a result of failure or omission on the part of the bidder to make the necessary examinations and investigations, or failure to fulfill in every detail the requirements of the contract documents, will be accepted as a basis for varying the requirements of the City or the compensation to the vendor.
- (c) Bidders are advised that all City contracts are subject to all legal requirements provided for in the City Charter and/or applicable City Ordinances, state and federal statutes. Any bid, after being opened, becomes subject to the Open Information Act, Government Code Chapter 552, therefore bidders must clearly indicate any portion of the submitted bid that the bidder claims is not subject to public inspection under the Open Information Act.
- (d) No officer or employee of the City shall have a financial interest, direct or indirect, in any contract with the City, or shall benefit financially, directly or indirectly, in the sale to the City of any materials, supplies or services, except on behalf of the City as an officer or employee. This prohibition extends to the City Public Service Board, San Antonio Water System, and all City boards and commissions other than those which are purely advisory. In this instance a City employee is defined as any employee of the City who is required to file a financial involvement report pursuant to the City's ethics ordinance.

2. PREPARATION OF BIDS

Bids will be prepared in accordance with the following:

- (a) All information required by the bid form shall be furnished or the bid may be deemed non responsive. The bidder shall print or type name and manually sign the Invitation for Bids.
- (b) Where there is a discrepancy between the unit price and the extended price, the unit price shall prevail.
- (c) Any bid that is considered for award on an "all or none" basis must include a price quote for all units or line items. Any bid that is considered for award by each unit or line item must include a price for each unit or line item for which the bidder wishes to be considered. Any ambiguity in the bid as a result of omission, error, unintelligible or illegible wording shall be construed in the favor of the City.
- (d) Alternate bids may be allowed at the sole discretion of the City.

- (e) Bidders will neither include federal taxes nor State of Texas limited sales excise and use taxes in bid prices since the City of San Antonio is exempt from payment of such taxes. An exemption certificate will be signed by City where applicable upon request by bidder.

3. DESCRIPTION OF SUPPLIES

Any catalog or manufacturer's reference used in describing an item is merely descriptive, and not restrictive, unless otherwise noted, and is used only to indicate type and quality of material. Each bid must clearly identify the proposed product, the quantity of the product, model, and type, as applicable. Prorata adjustments to packaging and pricing may be allowed at the sole discretion of the City.

4. ASSURANCE OF COMPLIANCE - EQUAL EMPLOYMENT OPPORTUNITY AND SMALL AND/OR MINORITY BUSINESS ADVOCACY REQUIREMENTS

It is the policy of the City of San Antonio that Small and/or Minority Business Enterprises shall have the maximum practicable opportunity to participate in the performance of public contracts. Bidder agrees that if this bid is accepted, he/she will not engage in employment practices which have the effect of discriminating against employees or prospective employees because of race, color, religion, national origin, sex, age, handicap or political belief or affiliation. In addition, bidder agrees, by submittal of this bid, that he/she will abide by all applicable terms and provisions of this Nondiscrimination Clause and the Small Business Advocacy Clause. These clauses are available in the City's Department of Economic and Employment Development and the City Clerk's Office.

5. SAMPLES, DEMONSTRATIONS AND TESTING

At the City's request and direction, bidder shall provide product samples and/or testing of items bid to ensure compliance with specifications. Samples, demonstrations and/or testing may be requested prior to award of the contract, upon delivery and/or at any point during the term of resulting contract. After notification, samples, demonstrations and/or testing must be provided within **ten** days. Failure to provide samples prior to award of contract will disqualify bidder from consideration. All samples (including return thereof), demonstrations and/or testing shall be at the expense of the bidder. Samples will be returned upon request; otherwise, samples will become property of the City of San Antonio, **ten** days after award of the contract.

6. SUBMISSION OF BIDS

- (a) **Bids in triplicate** shall be enclosed in sealed envelopes addressed to the City Clerk, City of San Antonio. The name and address of bidder, the date and hour of the bid opening, bid number and title of the bid solicitation shall be marked on the outside of the envelope(s).
- (b) Bids must be submitted on the forms furnished. Facsimile bids must be submitted in accordance with Par. 6 (a) above. Bids, however, may be modified provided such modifications are sealed and received by the City Clerk prior to the time and date set for the bid opening. However, the City of San Antonio shall not be responsible for lost or misdirected bids or modifications.
- (c) By submittal of this bid, bidder certifies to the best of his/her knowledge that all information is true and correct.

7. REJECTION OF BIDS

- (a) The City may reject a bid if:
 - 1. The bidder misstates or conceals any material fact in the bid; or
 - 2. The bid does not strictly conform to law or the requirements of the bid;
 - 3. The bid is conditional, except that the bidder may qualify the bid for acceptance by the City on an “All or None” basis or a “Low Item” basis. An “All or None” basis bid must include all items upon which bids are invited.
- (b) In the event that a bidder is or subsequently becomes delinquent in the payment of his, her or its City taxes, including state and local sales taxes, such fact shall constitute grounds for rejection of the bid, or if awarded the bid, for cancellation of the contract. However, the City reserves the right to deduct any delinquent taxes from payments that the City may owe to the delinquent bidder as a result of such contract.
- (c) The City may, however, reject all bids whenever it is deemed in the best interest of the City to do so, and may reject any part of a bid unless the bid has been qualified as provided in Par. 7 (a) 3 above. The City at its sole discretion may also waive any minor informalities or irregularities in any bid, to include failure to submit sufficient bid copies, failure to submit literature or similar attachments, or business affiliation information.

8. WITHDRAWAL OF BIDS

Bids may not be withdrawn after the time set for the bid opening, unless approved by the City Council.

9. LATE BIDS OR MODIFICATIONS

Bids and modifications received after the time set for the bid opening will not be considered.

10. CLARIFICATION TO BID SPECIFICATIONS

- (a) If any person contemplating submitting a bid for this contract is in doubt as to the true meaning of the specifications, other bid documents, or any part thereof, he/she may submit to the City Director of Purchasing on or before seven calendar days prior to scheduled opening, a request for clarification. All such requests for information shall be made in writing and the person submitting the request will be responsible for its prompt delivery. Any interpretation of the bid, if made, will be made only by Addendum duly issued. A copy of such Addendum will be mailed or delivered to each person receiving bids. The City will not be responsible for any other explanation or interpretation of the proposed bid made or given prior to the award of the contract. Any objections to the specifications and requirements as set forth in this bid must be filed in writing with the Director of Purchasing on or before **seven** calendar days prior to the scheduled opening.
- (b) The City reserves the right to request clarification to assist in evaluating the bidder’s response when the bid response is unclear with respect to product pricing, packaging or other factors. The information provided is not intended to change the bid response in any fashion and such information must be provided within **two** days from request.

11. DISCOUNTS

- (a) Prompt payment discounts will be considered in making the award provided the period of the discount offered is sufficient to permit payment within such period in the regular course of business (minimum ten days).
- (b) In connection with any discount offered, time will be computed from the date of receipt of supplies or services, or from the date a correct invoice is received, whichever is the later date. Payment is deemed to be made on the date of mailing of the check.

12. AWARD OF CONTRACT

- (a) Per Section § 252.043 of the Texas Local Government Code, the contract will be awarded to either the lowest responsible bidder or to the bidder who provides goods and/or services at the best value for the City. In determining best value, the City may consider price, reputation, quality, past relationship with City, SBEDA requirements, long term cost and any other relevant factors.
- (b) The City reserves the right to accept any item or group of items on this bid, unless the bidder qualifies his/her bid by specific limitations. Re Par.7 (a) 3 above.
- (c) A written award of acceptance (manifested by a City Ordinance) and appropriation mailed or otherwise furnished to the successful bidder results in a binding contract without further action by either party.
- (d) The City of San Antonio reserves the right to utilize previous purchases as a basis for evaluation of bids when future usages are unable to be determined.
- (e) Breaking of tie bids shall be in accordance with the Texas Local Government Code § 271.901.
- (f) Although the information furnished to bidders specified the approximate quantities needed, based on the best available information where a contract is let on a unit price basis, payment shall be based on the actual quantities supplied. The City reserves the right to delete items, prior to the awarding of the contract, and purchase said items by other means; or after the awarding of the contract, to increase or decrease the quantities bid in accordance with § 252.048 of the Texas Local Government Code. No changes shall be made without written notification of the City.

13. CONTRACT TERMINATION**TERMINATION-BREACH:**

- (a) Should vendor fail to fulfill in a timely and proper manner, as determined solely by the Director of Purchasing & General Services, its obligations under this contract, or violate any of the terms of this contract, the City shall have the right to immediately terminate the contract. Notice of termination shall be provided in writing to the contractor, effective upon the date set forth in the notice. Such termination shall not relieve the vendor of any liability to the City for damages sustained by virtue of any breach by the vendor.

TERMINATION-NOTICE:

- (b) Either party may cancel the contract at any time after award. The City shall be required to give the vendor notice **thirty** days prior to the date of cancellation of the contract. The vendor shall be required to give the City written notice **sixty** days prior to the date of cancellation of the contract.

TERMINATION-FUNDING:

- (c) City retains the right to terminate this contract at the expiration of each of City's budget periods. This contract is conditioned on a best efforts attempt by City to obtain and appropriate funds for payment of any debt due by City herein.

14. DELIVERY OF GOODS/SERVICES

- (a) All materials are to be delivered F.O.B., City of San Antonio's designated facility.
- (b) Delivery dates pertaining to this invitation must be clearly stated in the bid form where required and include weekends and holidays. Failure to comply with this requirement may be a cause for disqualification of the bid. Unless otherwise specified, delivery at the earliest date is required. The bidder will clearly state in the bid the time required for delivery upon receipt of contract or purchase order. Proposed delivery time must be specific and such phrases "as required", "as soon as possible" or "prompt" may result in disqualification of the bid.
- (c) Upon award of a contract, the vendor is obligated to deliver the goods to the destination specified in the Invitation for Bids or the Purchase Order and bears the risk of loss until delivery. If this Invitation for Bids or Purchase Order does not contain delivery instructions, bidders shall request instructions in writing from the Director of Purchasing. If the delivery instructions contained in the Invitation for Bids allocate delivery costs and risks in a manner contrary to this section, the provisions of this Invitation for Bids shall prevail.
- (d) When delivery is not met as provided for in the contract, the Purchasing Department reserves the right to make the purchase on the open market, with any cost in excess of the contract price paid by the vendor, in addition to any other damages, direct or consequential, incurred by the City as a result thereof. In addition, failure of the vendor to meet the contract delivery dates will be cause for removal of the vendor from the City's list of eligible bidders as determined by the Purchasing & General Services Department.

15. PERFORMANCE DEPOSIT

- (a) The following provisions shall apply only when a performance deposit is specified as required in this Invitation for Bids.
- (b) The successful vendor must furnish the City of San Antonio with a performance deposit in the amount set forth in the Invitation For Bids. This deposit is not to be submitted with the bid, but must be presented to the Purchasing & General Services Department within **ten** days from request.
- (c) The City of San Antonio will not enter into a contract or issue a purchase order until the successful vendor has complied with the performance deposit provisions.

- (d) The performance deposit shall be in the form of a performance bond (in a form acceptable to the City Attorney), cashier's check, certified check upon a state or national bank or trust company, or a check on such bank or trust company signed by a duly authorized officer thereof (checks to be drawn payable to the City of San Antonio), or a Certificate of Deposit from such bank or trust company assigned to the City of San Antonio, or an irrevocable letter of credit from a state or national bank or trust company.
- (e) The performance deposit of the successful vendor shall be returned by the City upon completion of the contract and final acceptance of all items in accordance with conditions thereof.
- (f) Failure of successful vendor to perform any of the services required by this contract within **ten** days of receipt of written demand for performance from City, or failure of vendor to correct or replace defective goods or products within **ten** days from receipt of written demand therefore, shall constitute a total breach of this contract and shall cause this contract to terminate immediately upon the expiration of the ten day period. In the event of such termination, the performance deposit shall be retained by the City of San Antonio as liquidated damages, based upon mutual agreement and understanding between vendor and City at the time this bid is solicited, submitted and accepted, that the City of San Antonio is a governmental agency engaged in public projects, and that the measurement of damages, which might result from a breach of the terms and specifications herein is difficult or impossible to determine. However, the Director of Purchasing & General Services with the concurrence of the City Manager, may return all or part of the performance deposit to the vendor if the Director determines, in the Director's sole discretion, that the failure to perform the conditions of this contract was the result of acts or events over which the vendor had no control. The determination shall then be final and binding on all parties.

16. INDEPENDENT CONTRACTOR

It is expressly understood and agreed by both parties hereto that the City is contracting with the successful vendor as an independent contractor. The parties hereto understand and agree that the City shall not be liable for any claims which may be asserted by any third party occurring in connection with the services to be performed by the successful vendor under this contract and that the successful vendor has no authority to bind the City.

17. BID RESULT REQUEST

Any party who wishes to be provided documents relating to the bid results shall make a request in writing. Pursuant to state law, the City may assess a fee in order to recoup the cost related to providing the requested information.

18. PATENTS/COPYRIGHTS

The successful vendor agrees to indemnify and hold the City harmless from any claim involving patent infringement or copyrights on goods supplied.

19. INDEMNITY

- (a) **CONTRACTOR** covenants and agrees to **FULLY INDEMNIFY** and **HOLD HARMLESS**, the **CITY** and the elected officials, employees, officers, directors, and representatives of the **CITY**, individually or collectively, from and against any and all costs, claims, liens, damages losses, expenses, fees, fines, penalties, proceedings, actions, demands, causes of action, liability and suits of any kind and nature, including but not limited to, personal injury or death and property damage, made upon the **CITY**, directly or indirectly arising out of resulting from or related to **CONTRACTOR'S** activities under this **CONTRACT**, including any acts or omissions of **CONTRACTOR**, any agent, officer, director, representative, employee, consultant or subcontractor of **CONTRACTOR**, and their respective officers, agents, employees, directors and representatives while in the exercise or performance of the rights or duties under this **CONTRACT**, all

without, however, waiving any governmental immunity available to the **CITY** under Texas Law and without waiving any defenses of the parties under Texas Law. The provisions of this **INDEMNIFICATION** are solely for the benefit of the parties hereto and not intended to create or grant any rights, contractual or otherwise, to any other person or entity. **CONTRACTOR** shall promptly advise the **CITY** in writing of any claim or demand against the **CITY** or **CONTRACTOR** known to **CONTRACTOR** related to or arising out of **CONTRACTOR'S** activities under this **CONTRACT** and shall see to the investigation and defense of such claim or demand at **CONTRACTOR'S** cost. The **CITY** shall have the right, at its option and at its own expense, to participate in such defense without relieving **CONTRACTOR** of any of its obligations under this paragraph.

- (b) It is the **EXPRESS INTENT** of the parties to this contract, that the **INDEMNITY** provided for in this section, is an **INDEMNITY** extended by **CONTRACTOR** to **INDEMNIFY, PROTECT** and **HOLD HARMLESS** the **CITY** from consequences of the **CITY'S OWN NEGLIGENCE**, provided however, that the **INDEMNITY** provided for in this section **SHALL APPLY** only when the **NEGLIGENT ACT** of the **CITY** is a **CONTRIBUTORY CAUSE** of the resultant injury, death, or damage, and shall have no application when the negligent act of the **CITY** is the sole cause of the resultant injury, death, or damage. **CONTRACTOR** further **AGREES TO DEFEND, AT ITS OWN EXPENSE** and **ON BEHALF OF THE CITY AND IN THE NAME OF THE CITY**, any claim or litigation brought against the **CITY** and its elected officials, employees, officers, directors and representatives, in connection with any such injury, death, or damage for which this **INDEMNITY** shall apply, as set forth above.

20. INSURANCE

If required, specific insurance provisions will be included in bid specifications. An original, certified copy of an insurance certificate must be submitted within **ten** days from request. The successful vendor will be required to maintain, at all times during performance of the contract, the insurance detailed in bid specifications. Failure to provide this document may result in disqualification of bid.

21. ACCEPTANCE BY CITY

The City shall have a reasonable time (but not less than 30 days) after receipt to inspect the goods and services tendered by vendor. The City at its option may reject all or any portion of such goods or services which do not, in City's sole discretion, comply in every respect with all terms and conditions of the contract. The City may elect to reject the entire goods and services tendered even if only a portion thereof is nonconforming. If the City elects to accept nonconforming goods and services, the City, in addition to its other remedies, shall be entitled to deduct a reasonable amount from the price thereof to compensate the City for the nonconformity. Any acceptance by the City, even if non-conditional, shall not be deemed a waiver or settlement of any defect in such goods and services.

22. WARRANTY

The supplies or services furnished under this contract shall be covered by the most favorable commercial warranties given to any customer for same or similar supplies or services.

23. CHANGE ORDERS

No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All change orders will be made in writing by the City of San Antonio Purchasing & General Services Department.

24. ASSIGNMENT

The successful vendor shall not sell, assign, transfer or convey this contract in whole or in part, without the prior written consent of the City of San Antonio Purchasing & General Services Department. Any such assignment or transfer shall not release vendor from all contractual obligations.

25. INTERLOCAL PARTICIPATION

- (a) The City may, from time to time, enter into Interlocal Cooperation Purchasing Agreements with other governmental entities or governmental cooperatives (hereafter collectively referred to as "Entity" or "Entities") to enhance the City's purchasing power. At the City's sole discretion and option, City may inform other Entities that they may acquire items listed in this Invitation for Bids (hereafter "IFB"). Such acquisition(s) shall be at the prices stated herein, and shall be subject to bidder's acceptance. Entities desiring to acquire items listed in this IFB shall be listed on a rider attached hereto, if known at the time of issuance of the IFB. City may issue subsequent riders after contract award setting forth additional Entities desiring to utilize this bid. VENDOR shall sign and return any subsequently issued riders within **ten** calendar days of receipt.
- (b) In no event shall City be considered a dealer, remarketer, agent or other representative of Vendor or Entity. Further, City shall not be considered and is not an agent; partner or representative of the Entity making purchases hereunder, and shall not be obligated or liable for any such order.
- (c) Entity purchase orders shall be submitted to Vendor by the Entity.
- (d) Vendor authorizes City's use of Vendor's name, trademarks and Vendor provided materials in City's presentations and promotions regarding the availability of use of this contract. The City makes no representation or guarantee as to any minimum amount being purchased by City or Entities, or whether Entity will purchase utilizing City's contract.

CITY WILL NOT BE LIABLE OR RESPONSIBLE FOR ANY OBLIGATIONS, INCLUDING, BUT NOT LIMITED TO, PAYMENT, AND FOR ANY ITEM ORDERED BY AN ENTITY OTHER THAN CITY.

26. QUESTIONS

Questions regarding interpretation of bids, bid results or bid awards should be directed to the Purchasing & General Services Department at (210) 207-7260 and referenced by bid number.

SPECIFICATIONS AND GENERAL REQUIREMENTS

SCOPE:

The City of San Antonio is soliciting bids for a two door tilt hood tractor for the San Antonio Fire Department (SAFD) in accordance with the specifications listed herein. This equipment will be utilized for firefighting throughout the City of San Antonio.

GENERAL CONDITIONS:

1. The following general conditions will apply to all items within this bid unless specifically excluded within any item.
2. Equipment shall be manufacturer's latest design, standard production model and shall have been manufactured within the last twelve (12) months. All components shall be installed new, unused and shall include all manufacturer's standard equipment unless otherwise specified or replaced herein. Equipment is to be serviced in accordance with manufacturer's recommended pre-delivery check-list and ready for operation upon delivery. Manufacturer's Statement of Origin (MSO) and completed pre-delivery checklist will be required at delivery.
3. City of San Antonio reserves the right to increase or decrease quantity of units being purchased through February 28, 2005, depending on availability of funds. Prices may not be increased during this period; however, the City should benefit from any price decrease. Additional units may be purchased on an "as needed" basis. Successful vendor is required to notify the City of all "cut-off" dates necessary for order submission.
4. All prices will be quoted F.O.B. destination, San Antonio facility. All bids will be submitted in triplicate and will include complete manufacturer's specifications for each model being bid.
5. Delivery is to be made inside the City limits of San Antonio. Vendor must deliver equipment to the location specified by the Fleet Acquisitions Manager, James D. Caudill, at (210) 207-8303. Delivery to a non-specified location will result in non-acceptance of the equipment by the City. All deliveries must be pre-arranged with a minimum 24-hour notification, NO EXCEPTIONS. Vehicles with more than 50 miles accumulated on the odometer will not be accepted. Delivery is to be made no later than **120** calendar days after issuance of purchase order.
6. Contractor's Specifications – Bidders shall include with each bid submittal, a set of "contractor's specifications". Contractor specifications shall consist of a detailed description of the vehicle and equipment proposed and to which the vehicle furnished under contract must conform. Each bidder shall include, with bid submittal, and detailed literature of the proposed vehicle and equipment.
7. Equipment Manuals – Two (2) operator's manuals per unit and two (2) parts, maintenance and repair manuals, (to include engine, transmission and all major components) per model of all equipment and accessories. Repair manuals may be provided in a printed format, on CDs, or by prepaid, 8-year subscription to manufacturer's web site at no cost to the City.

Manuals shall cover the completed vehicle as delivered and accepted, plus contain lubrication charts, operating instructions for the chassis, and any major components such as auxiliary systems. Instructions regarding the frequency and procedure for recommended maintenance, parts replacement as well as

operations and maintenance documents supplied with components and equipment installed or supplied by the awarded vendor.

8. Warranty – Dealer and manufacturer shall provide a minimum of one (1) year warranty, parts and service included, for equipment and attachments supplied. Such parts and service must be available within Bexar County from and by a factory-authorized dealer. Bids submitted by dealers located outside Bexar County will include a signed agreement with a factory authorized dealer located within Bexar County, providing warranty parts and service for item bid (NO EXCEPTIONS). All warranty repair will be completed within two days from the date equipment is delivered to the vendor unless otherwise approved by the appropriate City of San Antonio maintenance superintendent.

DEALER NAME: _____

ADDRESS: _____

9. Texas DOT Requirements - The Texas Department of Transportation (TXDOT) requires that only a Texas licensed dealer for this specific type of vehicle shall be accepted. Furthermore, in order for the bid to be in compliance with the Motor Vehicle Commission Code, the following entities must hold current, valid licenses issued by the Texas DOT:
- The manufacturer of the chassis (manufacturer's license).
 - The company performing the conversion (converter's license), if applicable.
 - Any representative promoting the transaction on behalf of the converter or manufacturer (representative's license).
 - A franchised Texas dealer (dealers license).
10. Training - A factory authorized delivery engineer shall instruct the fire department personnel in the safe operation and maintenance of the entire vehicle. The representative shall remain to train three shifts, the maintenance personnel and the training personnel in operation of the vehicle and all equipment installed or provided on the vehicle. Training shall be for a minimum period of two (2) days, if deemed necessary by the designated SAFD representative.
11. Where any name brand or make is specified in this invitation, an "or equal" will be considered. It will be the responsibility of the bidder offering another brand to prove it's equality. There are, however, items which will be identified, or followed by the phrase, "NO EXCEPTIONS". Bidders should interpret this phrase to mean these items cannot be substitute`
12. The City reserves the right to reject any and all bids, and to waive irregularities and any requirements of the bid, if deemed to be in the best interest of the City.
13. All purchases are subject to receipt of funding from State Homeland Security Grant/TEEKS.
14. For questions pertaining to technical specifications, contact William Davidson at (210) 313-4924 or James D. Caudill at (210) 207-8303. For questions regarding bidding procedures, contact Terri Canal at (210) 207-7024.

LIQUIDATED DAMAGES:

A late penalty of \$50 per calendar day shall be assessed on the vendor for deliveries made after 120 calendar days after issuance of purchase order. Any delay in the delivery of the vehicle(s) must be agreed upon in writing prior to delivery by a representative of the SAFD, or the penalty will be instated.

Penalty amounts shall be given to SAFD in the form of a rebate or loose equipment as specified by SAFD. All loose equipment specifications shall be submitted to vendor by the SAFD at time of incident.

The delivery penalty shall be considered satisfied when the vehicle is delivered to Southwest Public Safety.

ITEM	QUANTITY	DESCRIPTION
1	1 Each	Two Door Tilt Hood Tractor

CHASSIS -**DIMMENSIONS:**

168" wheelbase.

FRAME:

The fabricated frame shall be made of 120,000 PSI minimum yield carbon manganese heat treated steel. The cross-members shall be bolted together using grade 8 hardware. Minimum dimensions are 10-1/16" x 3-1/2" x 9/32".

48" flanged tapered end of frame overhang.

A full lifetime warranty against defects in materials and/or workmanship shall be supplied by the apparatus manufacturer.

BUMPER:

The vehicle shall be equipped with a one piece 10" high bumper, made from 10 gauge polished stainless steel. There shall be removable stainless steel bumper ends.

There shall be provisions in the front bumper for the clear driving lights to be flush mounted.

TOW HOOKS:

Two, (2) tow hooks or eyes shall be mounted in the opening behind the front bumper attached to the frame.

ENGINE:

Caterpillar C7, Wet Sleeve Engines or equal

300 hp @ 2400 rpm

860 ft/lb @ 1440 rpm

Air-to-air after cooled 4-cycle diesel.

Six (6) cylinders.

2004 EPA/CARB emission certification

Engine mounted oil check and fill

TRW THP-60 (or equal) power steering pump with 2 quart see through reservoir.

Bendix Westinghouse BA-921 (or equal) single cylinder, 15.9 cubic foot per minute air compressor with teflon compressor discharge line will be installed.

Engine mounted oil and check and fill.

Side of hood air intake with firewall mounted Donaldson (or equal) air cleaner.

Air intake warmer.

Delco (or equal) 12V 41MT 400 series starter

LN 12V 270 amp 4949PA pad mount alternator with smartcheck LED diagnostics.

Cat spin on fuel filter.

Sanden (or equal) compact air conditioner compressor, binary control, R-134A.

Full flow oil filter.

The engine exhaust system shall not require a catalytic converter to meet EPA requirements. The exhaust shall be 5" diameter and shall exit vertically on the right side of the vehicle. A chrome plated vertical stack and tip will be installed.

Heat tape wrap shall be installed from the turbo to the flex pipe under the body and the entire wrap shall be covered with wire mesh to keep from unwrapping.

A minimum 5 year/500,000 miles parts and labor warranty shall be provided as standard by Caterpillar, Wet Sleeve or equal. A copy of the End Product Questionnaire (EPQ) stating the engine installation meets Caterpillar, Wet Sleeve or equal, recommendations shall be provided.

ENGINE BLOCK HEATER:

A 120 volt coolant heater shall be installed in the engine block rated at 1000 watts and shall be wired to the Kussmaul (or equal) auto eject receptacle.

ENGINE BRAKE:

A Jacobs (or equal) engine brake shall be with an off/on switch and a low/medium/high control switch mounted in the cab. The Jake Brake (or equal) shall have an override switch that automatically deactivates the brake whenever the accelerator is depressed. An interlock system shall be used on automatic transmission installations and shall allow activation only when the transmission is in lock-up shift range. The engine brake must interface with the ABS controller to prevent wheel lock-up.

COOLING SYSTEM:

The cooling system shall have a tube and fin radiator with a minimum of 1000 square inches of frontal area. The radiator shall have a bolted steel top and bottom tanks. The system shall include a minimum of 888 square inch frontal area charge air cooler. The charge air cooler core shall be minimum 2.62" deep with 7 fins per inch.

There shall be a lower radiator guard.

All hoses shall be Gates blue stripe silicon. All clamps shall be pressure compensating screw type band clamps constructed of stainless steel.

The antifreeze shall be -34 F ethylene glycol pre-charged SCA heavy-duty coolant.

TRANSMISSION:

Allison (or equal) 3000 EVS 6 speed automatic with PTO

The vehicle shall utilize an Allison 3000 EVS 6-speed automatic transmission with a push button electronic shift control unit. It shall have a net input torque rating of 1250 lb. ft. and a net input power rating of 400 HP. The gear ratios shall be 3.49:1, 1.86:1, 1.41:1, 1:1, .75:1, .65:1, and R: -5.03:1. It shall have a lubricant capacity of 45 quarts, and a temperature gauge with warning light and buzzer shall be mounted in the cab.

The instrumentation panel shall have a "Do Not Shift" light and the shift selector shall have a "Service" indicator light. The shifter shall have means to enter a diagnostic mode and display diagnostic data. The vehicle shall utilize U-joints of sufficient size to allow full transmitted torque to the axle(s). Propeller shafts shall be axially straight, concentric with axis and balanced.

The transmission shall contain two (2) engine driven PTO openings located at the 1 and 8 o'clock positions. The automatic transmission shall be equipped with a power lock-up device.

WTEC transmission programming GRP 71, PKG 119

The transmission will have a manual fill/check device, and an electric check. Magnetic drain plug

There shall be a water to transmission fluid cooler frame mounted.

Parts and Labor Warranty - A minimum five (5) year/unlimited miles on parts and labor shall be provided as standard by Allison Transmission.

DRIVELINE:

The drive-line shall have a heavy-duty metal tube and shall be equipped with Spicer 1710 series (or equal) universal joints to allow full transmitted torque to the axles. Drive shafts shall be axially straight, concentric with axis, and dynamically balanced.

FRONT AXLE/SUSPENSION:

The vehicle shall utilize a Meritor MFS-12-143A (or equal) 5" drop beam front axle with a maximum capacity of 12,000 lbs. It shall have "easy steer" knuckle pin bushings and 68.83" kingpin centers. Standard spindle nuts for all axles. The axle shall be of I-beam construction. The front axle shall be furnished with two (2) heavy-duty, double acting shock absorbers, one (1) each side. A front cramp angle of no less than 45 degrees shall be provided.

The axle/suspension system shall be in the set-back configuration.

Rockwell Dura-Master (or equal) air disc brakes with automatic slack adjusters shall be installed on all front and rear axles. A swing away caliper assembly shall be utilized to facilitate maintenance. The rotors shall utilize a vented disc to help dissipate heat. All actuating parts shall be sealed from dirt and moisture. Fire and Emergency severe service non-asbestos front pads

Front springs shall be semi-elliptical, minimum 4" wide x 54" long (flat), minimum 11 leaf, constant rate with bronze bushings and a capacity up to 12,000 lbs. at the ground. The vehicle shall be equipped with a Sheppard integral full power steering gear. The steering assembly shall be rated to statically steer up to a maximum of 12,000 lbs. Relief stops shall be provided. The system shall operate mechanically should the hydraulic system fail. A minimum three (3) year/unlimited miles parts and labor warranty for the axle and brake assemblies shall be provided as standard by the manufacturer. Warranty shall include bushings, seals, and cams.

TRW THP-60 (or equal) power steering, power steering pump, with a 2 quart see-through power steering reservoir

A five (5) year/unlimited miles parts and labor axle warranty shall be provided as standard by Meritor Automotive or manufacturer of equal.

A five (5) year/unlimited miles parts and labor brake warranty shall be provided as standard by Meritor Automotive or manufacturer of equal. Warranty shall include bushings, seals, and cams.

FRONT AXLE OIL SEALS:

The front axle shall have Stemco (or equal) oil seals with sight glass to check the lubricant level of the axle spindles.

REAR AXLE:

The vehicle shall utilize a Meritor RS-23-186, R series (or equal), 23,000 lb. capacity rear single axle with single reduction hypoid gearing and disc type brakes, and Meritor Paymaster (or equal), automatic slack adjusters. The axle shall be equipped with oil lubricated wheel bearings with Meritor (or equal), oil seals.

Gearing shall allow a top speed of 70 mph.

Driver controlled traction differential single rear axle

17T Meritor (or equal) main driveline with half round yokes

Iron rear axle carrier housing

Differential lock control valve

Blinking lamp with each mode sw, diff unlock with ignition off

Castrol transynd synthetic automatic transmission oil (or equal)

Rear heavy duty shock absorbers, single axle

A 5 year/unlimited miles parts and labor axle warranty shall be provided as standard by Meritor Automotive or manufacturer of equal.

A 5 year/unlimited miles parts and labor brake warranty shall be provided as standard by Meritor Automotive or manufacturer of equal. Warranty shall include bushings, seals, and cams.

REAR AIR RIDE SUSPENSION:

The rear suspension shall be a 23,000 air ride suspension. It shall have two (2) heavy-duty air bags, two trailing I beams, torque rod, valve assemblies, and associated equipment.

Two (2) heavy duty shock absorbers shall be installed.

There shall be a manual and automatic dump valve with indicator.

A minimum 5 year/500,000 miles parts and labor warranty for the suspension, axle and brake assemblies shall be provided as standard by the manufacturer. Warranty shall include bushings, seals, and cams, bags, I beams, rods, valves, lines, and all associated equipment.

AIR BRAKE SYSTEM:

Meritor Dura-Master (or equal), air disc brakes with automatic slack adjusters shall be installed on all front and rear axles. A swing away caliper assembly shall be utilized to facilitate maintenance. The rotors shall utilize a vented disc to help dissipate heat. All actuating parts shall be sealed from dirt and moisture. Fire and Emergency severe service non-asbestos front pads

The vehicle shall be equipped with air operated brakes. Each wheel shall have a separate integral brake chamber. A dual treadle valve shall split the braking power between the front and rear systems. The chassis air system shall be equipped with a Bendix-Westinghouse AD-9 (or equal), air dryer and moisture ejector on each tank. The system shall provide a quick build-up capability. One reservoir shall serve as the wet tank and a minimum of one (1) tank shall be supplied for each of the front and rear axles. The total system shall carry a sufficient volume of air to comply with FMVSS 121. Spring actuated emergency/parking brakes shall be installed on the rear axle.

Air lines shall be constructed of nylon tubing which shall be protected from damage. Brass fittings shall be provided. The total air reservoir capacity shall be 6,464 cubic inches. A 1/4" brass quick release air chuck

connection shall be located inside the door on the left side of the cab. The male connection shall provide an inlet to the wet tank.

A Wabco (or equal) ABS system shall be provided to improve vehicle stability and control by reducing wheel lock-up during braking. This braking system shall be fitted to axles and all electrical connections shall be environmentally sealed, water, weather and vibration resistant.

The system shall constantly monitor wheel behavior during braking. Sensors on each wheel transmit wheel speed data to an electronic processor which shall sense approaching wheel lock and instantly modulate brake pressure up to 5 times per second to prevent wheel lock-up. Each wheel shall be individually controlled. Provisions in the system for an optional diagnostic tester shall be provided. The system shall test itself each time the vehicle is started and a dash mounted light shall go out once the vehicle is moving above 4 mph. The system shall be equipped with a dual circuit design. The system circuits shall be configured in a diagonal pattern. Should a malfunction occur, that circuit shall revert to normal braking action. A warning light shall signal malfunction to the operator.

The system shall consist of a sensor clip, sensor, electronic control unit and solenoid control valve. The sensor clip shall hold the sensor in close proximity to the tooth wheel. An inductive sensor consisting of a permanent magnet with a round pole pin and coil shall produce an alternating current with a frequency proportional to wheel speed. The unit shall be sealed, corrosion-resistant and protected from electro-magnetic interference. The electronic control unit shall monitor the speed of each wheel sensor and a microcomputer shall evaluate in milliseconds wheel slip. A deviation shall be corrected by cyclical brake application and release. If a malfunction occurs, the circuit shall signal the operator and the malfunctioning half of the system shall shut down. The system is installed in a diagonal pattern for side to side control. The system shall insure that each wheel is braked in optimum efficiency up to 5 times a second. The system shall also control application of the auxiliary engine, exhaust or driveline brakes to prevent wheel lock.

A minimum 5 year/500,000 miles parts and labor anti-locking braking system (ABS) warranty shall be provided as standard by the manufacturer.

AUTOMATIC MOISTURE EJECTORS:

All air reservoirs shall be equipped with a Bendix DV-2 (or equal), automatic reservoir drain valve which will automatically eject moisture and contaminants from the reservoirs.

FRONT TIRES AND WHEELS:

Michelin (or equal) 11R22.5 tubeless type 14 PR radial tires with highway tread mounted on 22.5 x 8.25 hub-piloted steel disc wheels shall be supplied. Tires with wheels shall have a front rating of 14,000 lbs. (single) at 70 MPH. The wheel and tire shall conform to the Tire and Rim Association requirements.

REAR TIRES AND WHEELS:

Michelin (or equal) 11R22.5 tubeless type 14 PR radial tires with highway tread mounted on 22.5 x 8.25 hub-piloted steel disc wheels shall be supplied. Tires with wheels shall have a rear rating of 23,200 lbs. (dual) at 70 MPH per axle. Wheel and tire shall conform to the Tire and Rim Association requirements.

SPARE TIRES AND WHEELS:

An extra two (2) front and two (2) rear tire, wheel, and stainless cover assemblies shall be supplied.

WHEEL COVERS:

Full Real Wheels stainless steel wheel covers shall be supplied for all front and rear wheels.

WHEEL CHOCKS:

Two (2) DOT and NFPA approved wheel chocks will be installed under the left side, middle of the chassis. They shall be properly restrained so as to prevent loss during vehicle operation.

FRONT MUDDLAPS:

Black hard rubber mud-flaps shall be installed under the cab, behind the front wheel-wells. They shall be ½" thick spray suppressant rubber.

REAR MUDDLAPS:

Black hard rubber mud-flaps shall be installed on the rear body wheel wells. They shall be ½" thick spray suppressant rubber.

FUEL TANKS:

Two (2) 50 gallon fuel tanks shall be provided and mounted on the both sides of the chassis. Dual wrap around type straps shall be provided to support the tanks. The tanks shall be of an all welded aluminum construction with anti-surge baffles and shall conform to all applicable FHWA 393.65 and .67 standards. The fuel tank shall be equipped with 2" filler necks, and have a .50" NPT bottom drain plug. A vent shall be provided at the top of the tank and shall have a useable draw of 50 gallons each. A mechanical fuel pump shall be provided and sized to meet the engine requirements

The manufacturer will certify that the fuel gauge is accurate and has been calibrated.

FUEL PUMP:

An auxiliary 12 volt fuel pump shall be included in the fuel system. The electric pump shall permit re-priming of the fuel lines and engine. The pump may be manually operated with a switch located on the cab dash. The electric pump shall also automatically operate in conjunction with the mechanical fuel pump as long as engine oil pressure is present. The system shall be plumbed to allow full flow to bypass the pump.

FUEL TANK SHUT OFF VALVE:

A shut-off valve shall be supplied to prevent drain back of fuel into the main supply line during filter changes. The valve location shall be determined at the pre-construct.

FUEL HOSE:

Wire braided fuel hose meeting SAE J-1402 shall be provided for the chassis fuel system. The hose shall have a working temperature rating of -55 degree F to 300 degrees F.

FUEL/WATER SEPERATOR:

There shall be a fuel water separator installed on the firewall.

AIR HORNS:

Dual Grover (or equal) air horns shall be connected to the chassis air system, and mounted behind the punched holes in the front bumper. The air horns shall be controlled by the center ring on the steering wheel, and a push button on the officer's side dash area. There shall be a 3 way switch in the overhead console that allows the

horn to be switched from air horn to electric horn to siren. Location of officer side switch shall be determined at pre-construct.

VERTICAL EXHAUST:

There shall be one (1) vertical exhaust pipe with chrome or stainless steel heat shield and grab handle mounted to the right side of the cab.

TRACTOR SERVICE:

Tractor configuration.

Fontaine (or equal) no-slack H5092 series HA 36 stationary HD top plate 5th wheel with a 7.25 wheel height.

Additional 5th wheel drillings at 2", 4", 6" fore and aft of bolt down position.

Slide left 5th wheel release

Rescue/Emergency service package.

Trailer to front of kingpin: 36"

Landing gear clearance: 96"

Minimum unladen height: 47"

Maximum unladen height: 49"

CAB:

2 door flat roof aluminum day cab, 106" BBC. Air bag cab suspension. Right and left cab entry grab handles. The firewall/tunnel shall be fully insulated.

Over head console with center storage and sun visors.

Driver convenience package.

The cab shall have the highest sound resistance possible.

In cab air filter restriction indicator.

Vinyl floor mats.

CAB INTERIOR:

A black rubber floor-mat with an aggressive slip-resistant surface shall be provided in the cab. A minimum of 56" from floor to ceiling in the cab shall be provided. A minimum of 40" seated headroom shall be provided.

All insulation must be permanently attached (tape will not be allowed). The exhaust system shall be wrapped with an insulating covering from the turbo outlet, to the main body.

The interior of the cab shall be padded and covered with marine vinyl. The covering shall have a 2 oz. wadding and ¼" foam padding. Padding board shall be backed with 0.25" thick reflective insulation. The backing shall be spun woven polyester. Interior cab padding shall consist of rear cab headliner, the rear wall of the cab, and side panels. The front headliner shall consist of vacuum-formed polymer that shall be integrated into the full width overhead console.

The cab dash instrument housing shall be constructed from vinyl coated polymer plastic. The dashboard shall be built in a user-friendly arrangement. The vehicle shall use a 6-position tilt and telescopic steering column for various size operators. An 18" padded steering wheel with center horn button shall be provided.

A full width overhead switch console shall be mounted to the cab ceiling. The console shall be made of high impact polymer plastic and shall have easily removable switch mounting plates. The console shall match the color of the overhead interior upholstery. All specified warning light controls shall be mounted on the overhead console.

Padded sun visors shall be provided for the driver and passenger.

The cab windshield shall be ¼" thick curved, laminated safety glass with 75% light transmittance automotive tint. A combined minimum viewing of 2,900 square inch shall be provided..

Three-point, retractable seat belts shall be provided for all seating positions.

The front cab steps shall be a minimum of 24" wide x 8" deep x 18" high. The step surface shall be aluminum diamond plate with a multi-directional, aggressive gripping surface, Gator Grip (TM) or equal.

Two (2) grab rails will be installed to facilitate entry into the cab (1 each side). They shall be mounted to the "B" post, and support 300 lbs.

INSTRUMENTS AND CONTROLS:

Cab instruments and controls shall be located on the cab instrument panel. Gauges and emergency warning light switches shall be installed in removable panels for ease of service. The following gauges and controls shall be provided:

- Speedometer/Odometer.
- Tachometer.
- Electronic programmable RPM control.
- Engine oil pressure gauge with warning light and buzzer.
- Engine water temperature gauge with warning light and buzzer.
- Dual needle air pressure gauge with warning light and buzzer.
- Fuel gauge.

- Digital voltmeter.
- Master battery switch/ignition switch (rocker with integral indicator).
- Starter switch/engine stop switch (push button).
- A/C, heater and defroster controls with illumination.
- Marker light/headlight control switch with dimmer switch.
- Self-canceling turn signal control with indicators.
- Windshield wiper switch with intermittent control and washer control.
- Warning light switch overhead control panel.
- Transmission oil temperature gauge.
- Air filter restriction indicator.
- Parking brake controls with red indicator light on dash.
- Tractor protection valve.
- Trailer brake valve, hand control.
- Automatic transmission shift console.
- Air horn button at center of steering wheel.
- Engine hour meter.
- Dual reading lights with door activated dome light.
- Instrument controls and switches shall be identified as to their function by back-lit wording adjacent to each switch, or indirect panel lighting adjacent to controls.
- Exact layout of switches will be determined at pre-construct.
- Diagnostic interface connector, 9 pin, SAE J1587/1708/1939, located below the dash.

An adjustable tilt/telescoping steering column with a push button air-horn center ring shall be provided on the left side of the cab.

The steering uniform shall be 18", four spoke.

DRIVER AND PASSENGER AIR RIDE SEATS:

The drivers and passenger seat shall be a Modura (or equal) cloth covered Bostrom Talladega 910 (or equal) high back suspension seat having dimensions in accordance with SAE J833. The seat shall have infinite position back angle adjustments, as well as a 3" seat and operators height adjustment with four (4) positive lock positions. The seat shall have a retractable 3-point DOT approved lap and shoulder harness, providing extra safety and security for personnel.

The seats shall be suspended on air ride suspension systems.

Both seats shall have dual arm rests.

MAROON INTERIOR:

Cab seat covers, trim panels, headliner, door panels and dash shall be maroon colored (if available).

ENGINE COVER INSULATION:

1" thick barrier foil foam insulation shall be installed on the interior surfaces of the engine cover in place of the standard 1" foam insulation.

CAB DOORS:

The cab doors shall be made of a 1/8" aluminum outer sheet material with aluminum extruded inner framework. The inner door panel shall be made of polymer plastic for increased durability. A molded, interior map pocket shall be incorporated into the lower door panel. The doors shall be securely fastened to the door-frame with a full length stainless steel piano hinge, with a 3/8" pin, and shall be bolted in place. For effective sealing, an extruded rubber gasket shall be provided on the perimeter of all doors. An aluminum bright finish tread plate scuff panel shall be provided at the base of every door. Interior paddle style latches shall be provided with exterior "L" type handles. A interior, anodized ribbed aluminum grab handle shall be provided on each door below the door window to insure proper hand holds while entering and exiting the cab.

Cab door openings shall be approximately 36" wide x 71.5" high. The front door windows shall provide a minimum viewing area of 450 square inches each. Windows shall have 75% light transmittance automotive safety tint. Full roll down windows shall be provided in each door with electric worm gear drive cable operation.

The doors will have aluminum lower kickplates.

Additionally, both cab doors shall have full width, under door exterior steps.

AIR CONDITIONING:

An in-dash mounted A/C, heater and defroster with a capacity of 42,000 BTU/hr and all necessary controls shall be mounted in the cab. The air flow system shall consist of three levels, defrost, cab and floor, and shall have fresh air capabilities. The A/C system shall be of the highest capacity available, and use R-134A.

VISOR:

Above the cab windshield there shall be a full width painted sun visor.

WINDOWS:

The side and rear windows shall be tinted with automotive grade window film, as dark as legally possible.

The front windshield shall be factory tinted.

The rear window shall be 63" x 14".

Both doors shall have operational vent windows.

The windows shall be electrically operated.

MIRRORS:

Right and left hand chrome or stainless steel mirrors shall be full size, west coast style, with 8" convex inserts.

There shall be a door mounted down-view mirrors.

HOOD:

The hood shall be fiberglass and have a chrome or stainless steel grille, and be of a low profile design.

A manual hood lift system shall be provided. It shall allow the hood to open a minimum of 45 degrees, and allow unobstructed access to the engine compartment.

Spring loaded assist shall be incorporated. There shall be two (2) hood latches allowing the hood to be held in place.

The hood shall be fully insulated.

The head lights and marker lights shall be integral into the hood.

12 VOLT ELECTRICAL

GENERAL ELECTRICAL:

All added on electrical circuits shall be protected by automatic resetting circuit breakers. All added wiring shall be stranded copper, cross-link polyethylene insulation GXL high temperature rated from -50F to +350F. All wiring shall be a minimum of 12-gauge wire protected in a fire resistant loom. Wiring shall be color, number and function coded for each individual circuit function. Labeling shall be every 3" along the entire length of the wire.

Where the wiring passes through metal, a grommet shall be used. All exterior wiring shall be run in split loom to protect the wire.

Circuit connections shall be made on terminal blocks utilizing binding post screws for positive mechanical connections.

All wiring connections shall be made using a crimp on connector.

Wiring in the module shall run down the center of the ceiling and be covered with color coordinated vinyl, flush with the ceiling.

MULTI-PLEXED CHASSIS:

The entire chassis wiring system shall be multi-plexed (if available).

LED LIGHTS:

All lights shall be LED (where available).

ALTERNATOR:

The alternator shall be a 265 amp, per NFPA 1901 rating (290 amp SAE J56), Niehoff (or equal) brushless type with rectifier. The unit shall be self load limiting and shall have an adjustable, remote solid state voltage regulator and AC taps.

RADIO:

An AM/FM/Weather Band radio with two (2) speakers will be installed.

HEADLIGHTS:

Daytime running lights.

AUXILLARY DRIVING LIGHTS:

Two (2) clear driving lights will mounted recessed in the front bumper.

TAIL/STOP LIGHTS:

The rear taillights shall be LED stop/tail combination with separate LED backup lights.

BACK UP ALARM:

An audible back up alarm will be installed on the rear of the chassis and activate any time the vehicle is in reverse gear.

WINDSHIELD WIPERS:

Two speed windshield wipers with delay and an 8 liter washer reservoir will be installed below the windshield.

CAB/CHASSIS PAINT FINISH:

The aluminum body exterior shall have all equipment such as warning lights and quartz lights mounted on the body and removed prior to painting. This will insure that all areas are primed and painted and that no holes or taps are drilled after painting.

The compartment doors shall be removed and painted separately to insure proper coverage on the doors and door jambs.

All aluminum shall be primed with a chromate based phosphoric acid catalyzed self-etching wash primer to provide superior corrosion resistance and excellent adhesion of the top coat. Next, an acrylic urethane primer-sealer shall be applied to guarantee excellent holdout and a uniform base coat. The third step includes a two-component surface to provide good enamel hold-out of the top coat. Finally, a lead-free chromate-free medium solid acrylic urethane top coat shall be applied, to match the chassis cab color providing excellent coverage and durability. This can be considered a minimum.

The entire chassis to include frame, cross-members, axles, etc... shall be painted in body Red.

The bottom $\frac{3}{4}$ of the cab/body shall be red, the top $\frac{1}{4}$ shall be white. Exact paint scheme shall be determined at the pre-construct conference.

The following part numbers shall be used or cross-referenced:

- Red: PPG FTB 75492 Candy Apple Red, base coat/clear coat
- White: PPG FTB 91776 White, base coat/clear coat

EMERGENCY LIGHTING/ SIREN SYSTEM/CONSOLE/STRIPING PACKAGE:

- Emergency Product Kit: SAFDM2T

OPTIONS:

The bidder shall provide pricing on the following items to be considered optional. The SAFD reserves the right to add or delete the optional equipment as funding allows.

OPTION 1:

EXTENDED 5-YEAR WARRANTY:

The apparatus manufacturer shall provide a full five (5) year extended comprehensive warranty. All components manufactured by the apparatus manufacturer should be covered against defects in materials and workmanship for a five (5) year period. All components covered by separate suppliers such as engines, transmissions, tires, and batteries shall be the responsibility of the vendor if resolution cannot be made with supplier. A copy of the warranty document shall be provided with the bid.

OPTION 2:

FEDERAL Q2B SIREN:

A chrome plated and bumper flush mounted Federal 10" Q2B coaster siren shall be installed in the front bumper. The siren shall be operated from a floor mounted foot switch one for the driver and a push button switch for the officer. An electric siren brake switch shall be located on the switch panel.

Note: The siren may also be obtained and installed by Southwest Public Safety with direct billing to the awarded vendor. Payment to Southwest Public Safety shall be the sole responsibility of the awarded vendor.

PRICE SCHEDULE

ITEM	QUANTITY	DESCRIPTION
1	1 Each	Two Door Tilt Hood Tractor

PRICE: \$_____ per Each

MAKE:_____

MODEL:_____

DELIVERY: Within _____ calendar days after issuance of purchase order.

(DELIVERIES BEYOND 120 CALENDAR DAYS ARE UNACCEPTABLE.)

OPTIONS:

ITEM	QUANTITY	DESCRIPTION
1	1 Lot	Extended 5 Year Warranty

PRICE: \$_____ TOTAL

ITEM	QUANTITY	DESCRIPTION
2	1 Each	Federal Q2B Siren

PRICE: \$_____ TOTAL

MAKE:_____

MODEL:_____

Award will be made to one firm only.

IMPORTANT MAILING INSTRUCTIONS:

MAIL TO: CITY CLERK
P.O. BOX 839966
SAN ANTONIO, TX 78283-3966

PHYSICAL ADDRESS: CITY CLERK
CITY HALL (COMMERCE ST. & FLORES ST.)
100 MILITARY PLAZA, 2ND FLOOR
SAN ANTONIO, TEXAS 78205

MARK ENVELOPE: "BID TO FURNISH TWO DOOR TILT HOOD TRACTOR"
BIDS TO BE OPENED: 2:00 P.M., DECEMBER 10, 2004
BID NO.: 05-018

REMARKS: